

**Invention:** Reference Sample for Generating Smoky Atmosphere

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**Listing of Claims**

Claims 1 – 10 (cancelled)

Claim 11 (currently amended). The method of generating a desired atmosphere for testing the response of a fire detector which comprises providing a porous sample, providing a heating element within said sample, and energizing said heating element to cause said sample to release volatile thermal decomposition products to approximate smoldering.

Claim 12 (original). The method of claim 1 further comprising constructing said sample of a mixture of the types of plastics normally found in the cargo compartment of an airplane.

Claim 13 (original). The method of claim 12 further comprising placing a flammable liquid on said porous sample, providing an ignition source for said flammable liquid, and simultaneously energizing said ignition source and said heating element.

Claim 14 (original). The method of claim 12 further comprising constructing said sample in a plurality of layers.

Claim 15 (original). The method of claim 14 further comprising constructing said layers in different porosities.

Claim 16 (original). The method of claim 15 further comprising construction said layers in different thicknesses.

Claim 17 (original). The method of claim 16 further comprising placing said heating element in the interface between two of said layers.